

## Linear One Interior



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# INTRODUCTION

## WELCOME

Welcome to the Linear One Interior range from Acclaim Lighting. These aluminum bodied IP40 dry location fixtures are available in 1' and 4' lengths and are easily interconnected in series to greatly simplify installation.

The Linear One Interior range fully embraces Acclaim Lighting's Modular Systems (AMS) design standard; AMS allows a wider choice of internal and external options to be configured in our Los Angeles headquarters and delivered in industry-leading time. In both 1' and 4' lengths, there are four (4) emitter color temperature choices and an extensive range of lens options to suit every installation:



- 2700K, 3000K, 3500K, 4000K (all with Color Rendering Indexes of either 80 or 90 CRI),
- 10° x 10°, 30° x 30°, 30° x 60°, 60° x 60°, 100° x 100°, 10° x 25°, 10° x 40°, 10° x 70°, 40° x 70°,
- Asymmetric (60° x 60° + 20° tilt), Batwing (split 10° x 40° or 40° x 70°).

Additionally, optional glare shields and louvers allow the light output to be shaped further.

Control is achieved using the industry standard 0-10V sink format. Each Linear One Interior fixture has a short in-line input cable at one end and a fixed output socket at the other (power and control signals are combined via proprietary connectors). These allow the fixtures to be seamlessly abutted in lengths up to 80 feet (24m) without the need for separate link cables.

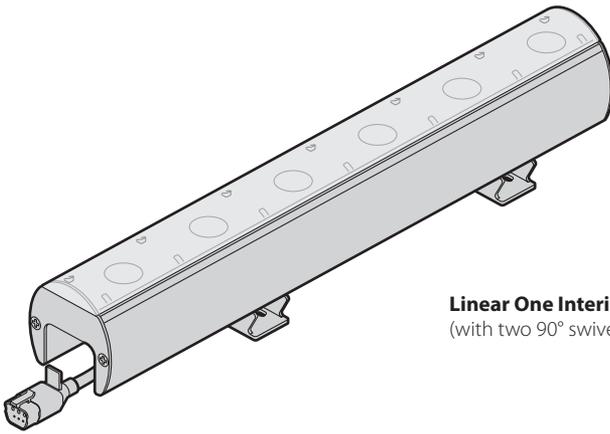
With the addition of the optional Acclaim Lighting UDM and Aria units (see page 11), you can add remote wireless connectivity to the long list of abilities within the Linear One Interior range.

The internal auto-sensing power supply within each unit can accept mains inputs between 100 to 277VAC at 50 or 60Hz. Total power consumption is just 12W per foot.

## SAFETY

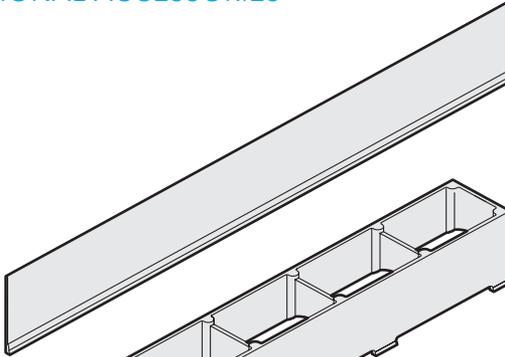
- When fixtures are mounted off-ground, ensure that they are securely fitted to an appropriate mounting surface.
- Ensure that the power input is supplied from a correctly fused, earthed and environmentally protected location.

## SUPPLIED ITEMS



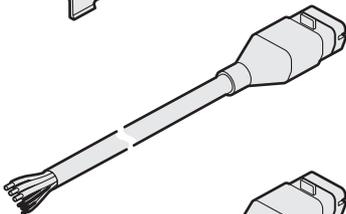
**Linear One Interior 1' or 4'**  
(with two 90° swivel mount brackets)

## OPTIONAL ACCESSORIES

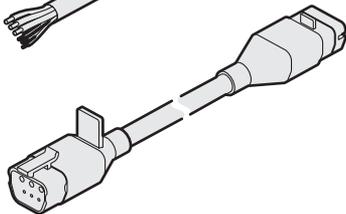


**Glare shield**  
1' (30cm) [LNIGS1]  
4' (121cm) [LNIGS4]

**Louver**  
12" (30cm) [LNILV1]

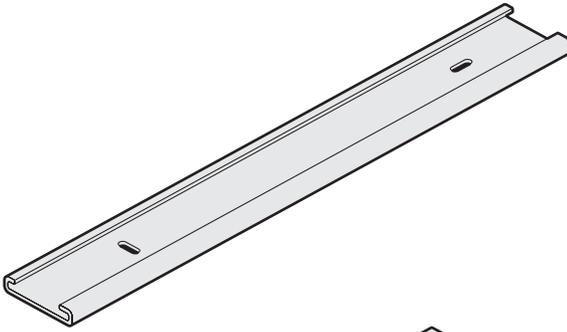


**Feed cables** (including end cap)  
10' (3m) [LNFC10]  
50' (15m) [LNFC50]



**Link cables**  
6" (15cm) [LNLC0]  
1' (30cm) [LNLC1]  
5' (1.5m) [LNLC5]  
10' (3m) [LNLC10]

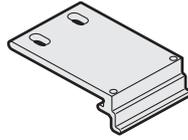
## OPTIONAL ACCESSORIES (CONTINUED)



### Mounting track\*

- 1' (30cm) [LNMT1]
- 4' (121cm) [LNMT4]

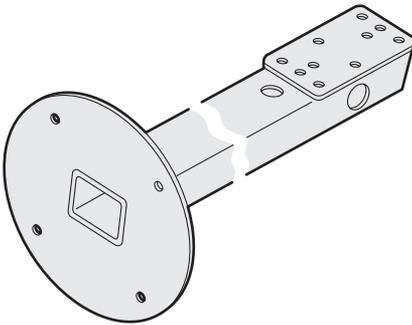
*\* not required for all installations*



### Flat mounting bracket\*

- [LNFMB]

*\* factory fitted option*



### Extender bars

- 1' (30cm) [LNEB1]
- 2' (60cm) [LNEB2]
- 3' (91cm) [LNEB3]

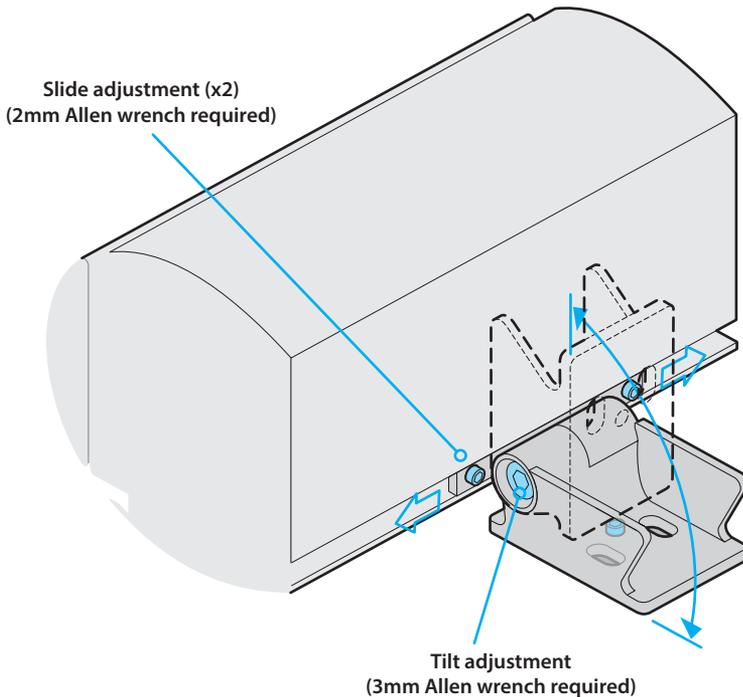
# INSTALLATION

When installing each Linear One fixture, ensure that the surface is level and that nothing is protruding to damage the mounting bracket(s). Suitable mounting surfaces include steel, aluminum, concrete or wood structures.

Each Linear One fixture is fitted with two swivel mounting brackets, each of which have two slots measuring 0.26" x 0.18" (6.5 x 4.5mm), with a base thickness of 0.12" (3mm). Select bolts or screws (not supplied) that fit the swivel mounting brackets correctly and are particularly suited to the mounting surface. Optional mounting tracks (see page 6) and flat mounting brackets (factory fitted option) are also available.

## MOUNT ADJUSTMENT

The swivel mounting brackets allow a tilt range of roughly 90 degrees to be achieved. Use a 0.12" (3mm) Allen wrench to adjust the tilt angle.



Ensure that each swivel mounting bracket is securely fixed to the mounting surface with appropriate screws/bolts. If necessary, use a 2mm Allen wrench to loosen the two grub screws on each swivel mounting bracket to allow them to slide along the length of the fixture to the required position before re-tightening.

## USING AN OPTIONAL MOUNTING TRACK

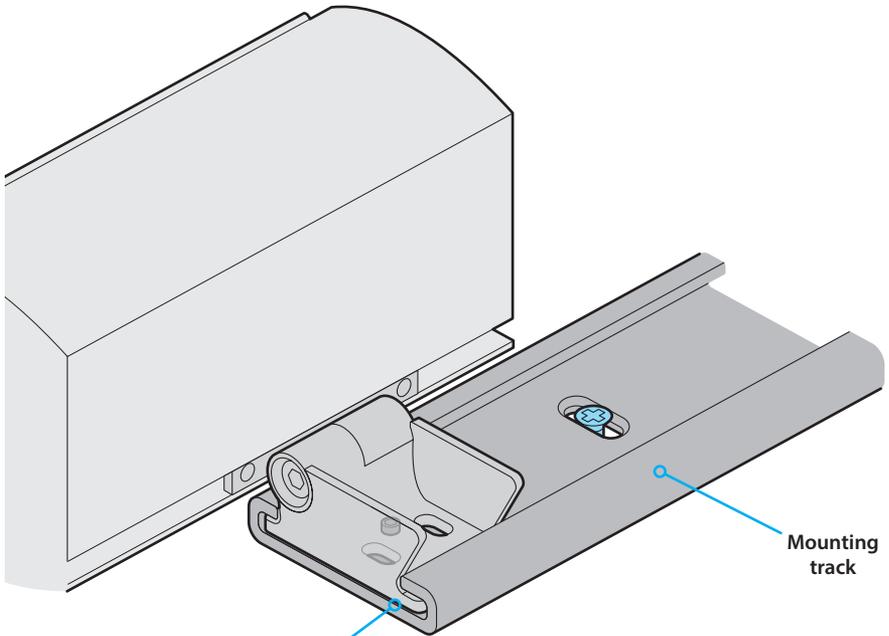
Mounting tracks are aluminum profiles that provide an additional way to secure Linear One fixtures to surfaces. Once attached to the surface, the mounting track allows the standard swivel mounting brackets to slide into and be fixed to the track.

*Note: The mounting tracks are not symmetrical, one lip is larger than the other in order to accommodate the shape of the swivel mounts.*

### TO USE A MOUNTING TRACK

- 1 Fix the mounting track to your surface using suitable countersunk screws, taking care to orientate the mounting track correctly, see the note above.

*Note: It is important that the countersunk screw heads lie almost flat with the inner surface of the mounting track, otherwise the swivel brackets of the fixture will not slide over them.*



**Note: The 'toe' of each swivel mount will only fit into the larger lip of mounting track**

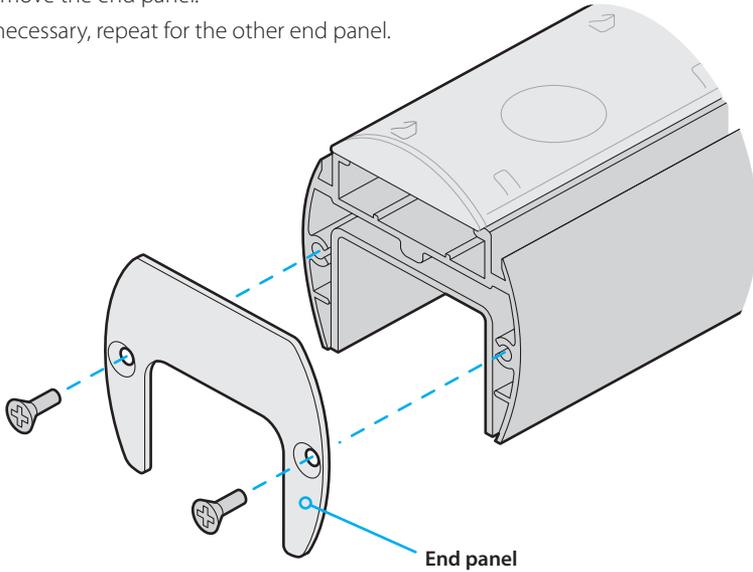
- 2 Slide the swivel brackets of the fixture into the mounting track and secure them at the required position using small grub screws.

## REMOVING AND REFITTING AN END PANEL

Several alterations to the Linear One fixture begin with the removal of an end panel. There are just two screws holding each end panel in place and these require a medium sized Pozi-Drive (Philips) screwdriver.

### TO REMOVE AN END PANEL

- 1 Using a medium sized Pozi-Drive (Philips) screwdriver, remove the two screws and store safely for refitting.
- 2 Remove the end panel.
- 3 If necessary, repeat for the other end panel.



### TO REFIT AN END PANEL

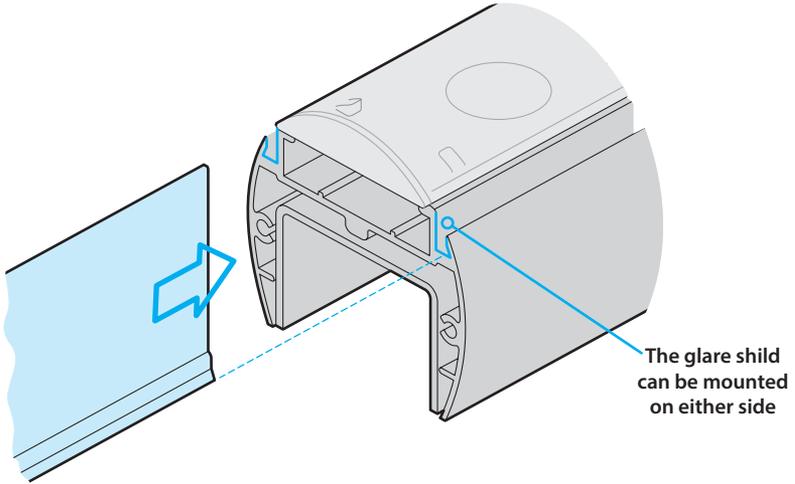
- 1 Position an end panel onto the fixture, ensuring that the countersinks of the two holes are facing outwards.
- 2 Insert the two screws and tighten them using a medium sized Pozi-Drive (Philips) screwdriver.
- 3 If necessary, repeat for the other end panel.

## FITTING AN OPTIONAL GLARE SHIELD

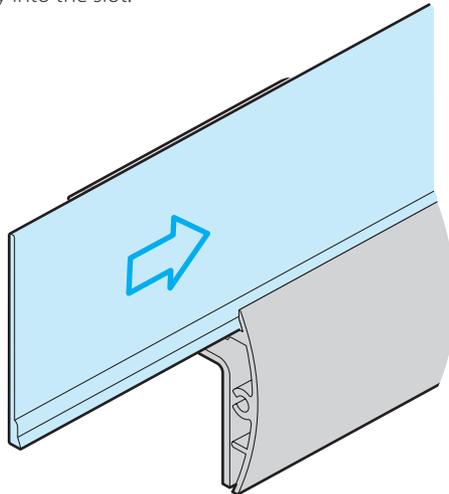
Optional glare shields are available which can be fitted on either side of the emitter housing to help conceal the emitters from side view.

### TO INSERT A GLARE SHIELD

- 1 Remove either of the end panels (see page 7).
- 2 Orientate the glare shield so that it correctly aligns with the required slot in the fixture's chassis.



- 3 Slide in the glare shield fully into the slot.



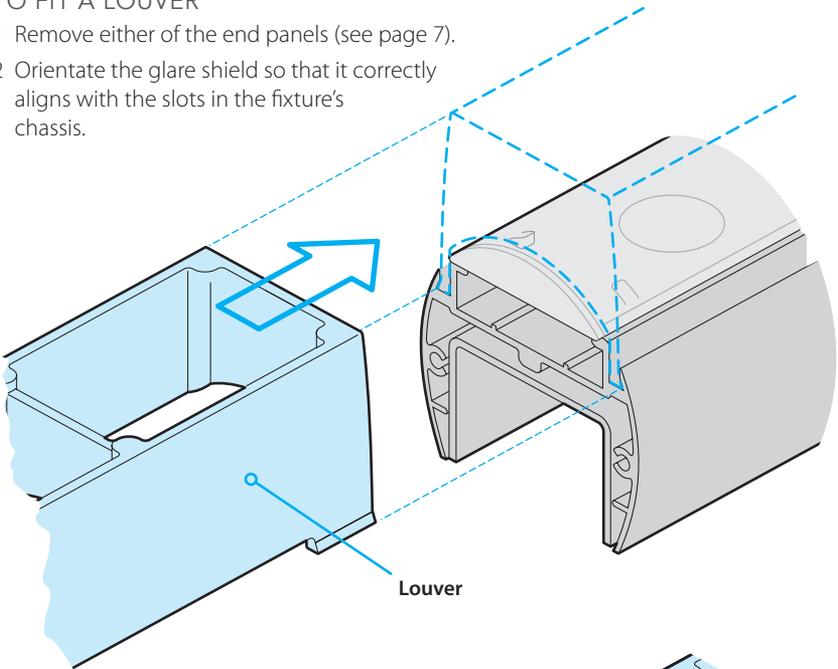
- 4 Refit the end panel (see page 7).

## FITTING AN OPTIONAL LOUVER

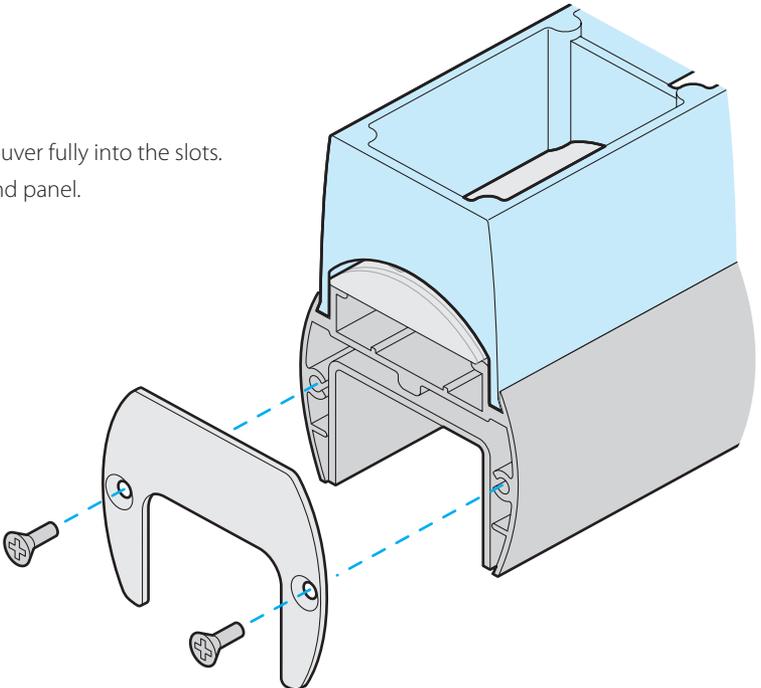
Optional 1' louvers are available, which can be fitted to eliminate side spill in all directions. For 4' Linear One fixtures, use four louvers together.

### TO FIT A LOUVER

- 1 Remove either of the end panels (see page 7).
- 2 Orientate the glare shield so that it correctly aligns with the slots in the fixture's chassis.



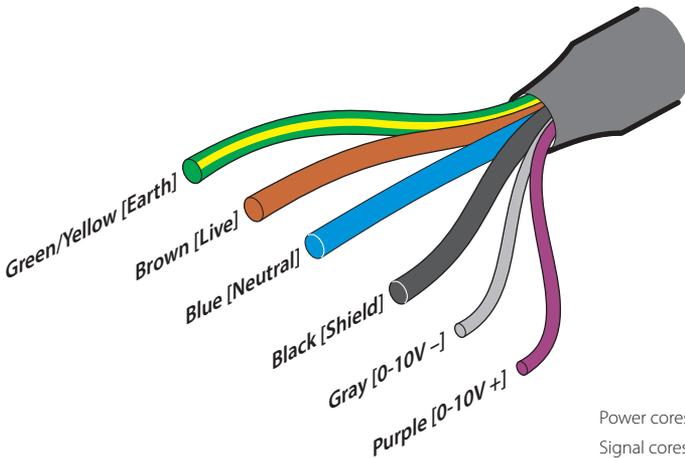
- 3 Slide the louver fully into the slots.
- 4 Refit the end panel.



## POWER AND CONTROL WIRING

Power and control are combined within the IP66-rated feed and inter-connect cables. Input and output connectors are proprietary six pin designs; with a male input connector located at one end and female output connector at the other. Connector placements are such that abutted units can be directly connected without need for extra cables.

The color designations for the optional feed in cable are as follows:



Power cores: AWG 18 / 1.02mm<sup>2</sup>

Signal cores: AWG 26 / 0.13mm<sup>2</sup>

### POWER

The power requirements are as follows:

- Voltage: 100-277VAC 50/60Hz
- Power: 12W per 1' section (48W for 4' models)

### CONTROL

The control links use two cores for the 0-10V connections (plus a shield/ground connection). Each feed cable kit includes an end cap to allow the final output connector to be sealed against damage by moisture ingress.

### IN-RUSH CURRENTS

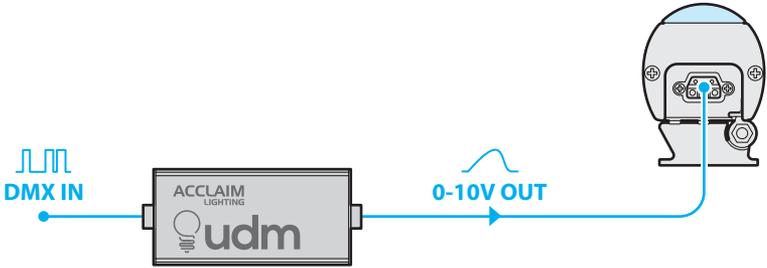
Linear One fixtures are specially designed to ramp up their current intake [relatively] slowly in order to prevent in-rush current issues. When first powered on, a Linear One fixture should not exceed its standard rating of 12W per linear foot.

### MAXIMUM NUMBER OF LINEAR ONE FIXTURES

A maximum of 80 feet (24m) of Linear One fixtures can be connected in a single series run.

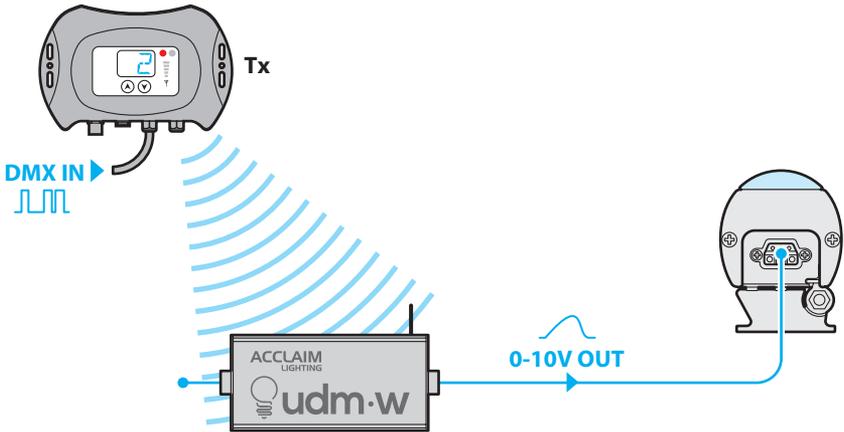
## OPTIONAL DMX OPERATION (VIA UDM)

Linear One fixtures operate using a 0-10V (source or sink) control signal input. Where DMX control is required, the optional Acclaim Lighting UDM device is available to perform the necessary signal conversion:



## OPTIONAL WIRELESS DMX OPERATION (VIA UDM•W)

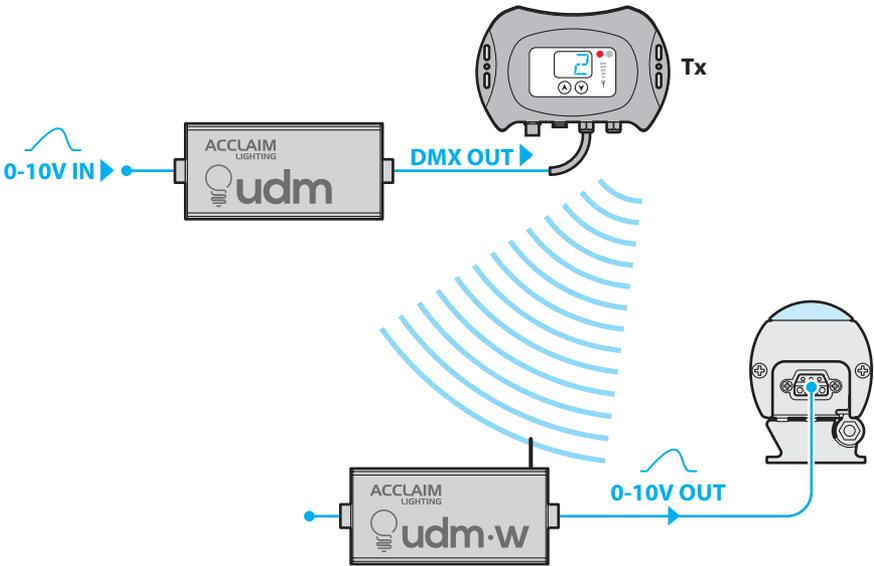
In addition to performing DMX to 0-10V signal conversions, the optional UDM•W also adds Aria™ wireless linking over distances up to 2600 feet (792m) line of sight (when coupled with an Aria transmitter [TX]):



*continued*

## OPTIONAL WIRELESS 0-10V OPERATION (VIA UDM AND ARIA)

Using a combination of Acclaim Lighting UDM, Aria and UDM•W units it is possible to transmit a 0-10V input wirelessly over distances up to 2600 feet (792m) line of sight to the Linear One installation:



# FURTHER INFORMATION

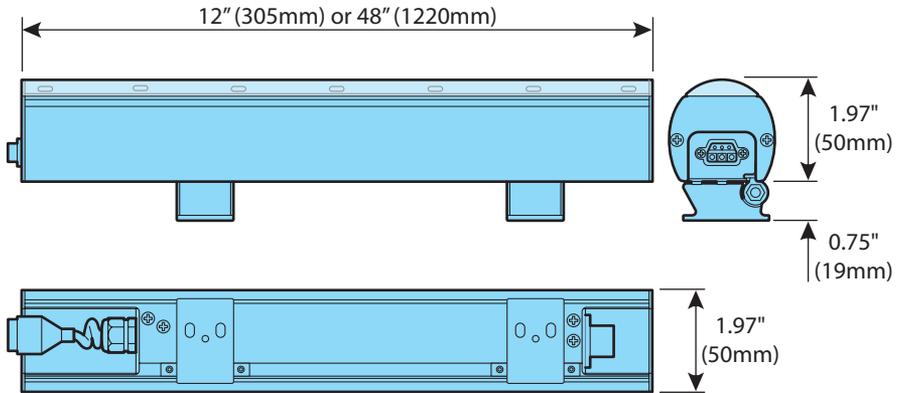
## TROUBLESHOOTING

### LUMINAIRE DOESN'T TURN ON

- Check that power is correctly applied to the fixture and that there is no damage to the power input cord.
- Check that the 0-10V + (hot) and – (cold) lines on the incoming control link have not been crossed.

## SPECIFICATIONS

Color models	2700K, 3000K, 3500K, 4000K (80 CRI or 90 CRI available)
Beam angle options	10° x 10°, 30° x 30°, 30° x 60°, 60° x 60°, 100° x 100°, 10° x 25°, 10° x 40°, 10° x 70°, 40° x 70° Asymmetric (60° x 60° + 20° tilt), Batwing (split 10° x 40° or 40° x 70°)
Lumen maintenance (L <sub>70</sub> )	150,000 hours (25°C)
Control	0-10V sink. 0-10V source or DMX via optional UDM unit
Maximum lengths in series	80' (24m)
Power input	100 - 277VAC, 50/60Hz
Power consumption	12W (1' model), 48W (4' model)
Housing	Silver / finished aluminum body, polycarbonate lens
Mounting	90° swivel mounts. Optional flat mounts available
IP rating	IP40, dry location
IK rating	IK10, protection against 5 joule impact (40cm distance)
Operating temperature	-4°F to 113°F (-20°C to 45°C)
Weight	1.6 lbs/0.72kg (1' model), 4.4 lbs/2.0kg (4' model)
Certifications	



## LIMITED PRODUCT WARRANTY

A. Acclaim Lighting™ hereby warrants, to the original purchaser, Acclaim Lighting finished products to be free of manufacturing defects in material and workmanship for a standard period of:

- Fixtures: 5 Years (1,825 days) from the date of purchase.
- Drivers, power supplies and accessories: 5 Years (1,825 days) from the date of purchase.
- Flex Products: 3 Years (1,095 days) from the date of purchase.
- Controllers: 2 Years (730 days) from the date of purchase.

It is the owner's responsibility to establish the date and place of purchase and warranty terms by acceptable evidence, at the time service is sought.

B. For warranty service, send the product only to the Acclaim factory. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, Acclaim Lighting will pay return shipping charges only to a designated point within the United States. If the entire instrument is sent, it must be shipped in its original package. No accessories should be shipped with the product. If any accessories are shipped with the product, Acclaim Lighting shall have no liability whatsoever for loss of or damage to any such accessories, nor for the safe return thereof. Acclaim reserves the right to replace the item with same or similar product at its discretion.

C. This warranty is void if the serial number has been altered or removed; if the product is modified in any manner which Acclaim concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the Acclaim Lighting factory unless prior written authorization was issued to purchaser by Acclaim Lighting; if the product is damaged because not properly maintained as set forth in the instruction manual.

D. This is not a service contract, and this warranty does not include maintenance, cleaning or periodic check-up nor do we guarantee as part of this warranty any lumen performance during period. Parts not covered by this warranty include: fuses, external power supplies, third party items not manufactures by Acclaim lighting. During the period specified above, Acclaim Lighting will replace defective parts at its expense, and will absorb all expenses for warranty service and repair labor by reason of defects in material or workmanship. The sole responsibility of Acclaim Lighting under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of Acclaim Lighting. At no time will installation or re-installation or products labor or liability costs will be assumed by Acclaim Lighting. All products covered by this warranty were manufactured after January 1, 2012, and bear identifying serial number marks to that effect.

E. Acclaim Lighting reserves the right to make changes in design and/or improvements upon its products without any obligation to include these changes in any products theretofore manufactured. No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with products describe above. Except to the extent prohibited by applicable law, all implied warranties made by Acclaim Lighting in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty period set forth above. And no warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said period has expired.

F. Marine or extreme weather location applications using Acclaim lighting products are subject to a 2 year limited warranty and Acclaim must be notified prior to delivery of units for such applications so that preventative treatment can be made to the products to ensure proper performance and product life with a special marine code coating / sealing process at an additional cost.

G. The consumer's and or dealer's sole remedy shall be such repair or replacement as is expressly provide above; and under no circumstances shall Acclaim Lighting be liable for any loss or damage, direct or consequential, arising out of the use of, or inability to use, this product. This warranty is the only written warranty applicable to Acclaim Lighting products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

[www.acclaimlighting.com](http://www.acclaimlighting.com)